

Art Unit: 1731
Docket No.: 11728/4

1731

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : J. SUGAWARA et al.
 Serial No. : 10/019,752
 Filed : December 27, 2001
 For : BLACK CERAMIC SINTER WITH LOW THERMAL EXPANSION AND HIGH SPECIFIC RIGIDITY AND PROCESS FOR PRODUCING THE SAME

Assistant Commissioner
for Patents
Washington, D.C. 20231

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TRANSMITTAL LETTER

SIR:

Transmitted herewith is an Amendment/Response in the above-identified patent application.

No additional fee is required.

The fee has been calculated as shown below.

CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NO. PREVIOUSLY PAID FOR	RATE EXTRA	OTHER THAN A SMALL ENTITY	
			ADDIT. OR FEE	RATE FEE
TOTAL 19	MINUS 20 = 0	x9 = \$	x18 = \$	0.00
INDEP. 3	MINUS 3 = 0	x40 = \$	x84 = \$	0.00
[] FIRST PRESENTATION OF MULTIPLE			x135= \$	x280= \$ 0.00
DEP. CLAIM		TOTAL ADDIT. FEE	\$ OR	\$ 0.00

The Commissioner is hereby authorized to charge fees under 37 CFR 1.16 and 1.17 which may be required to Deposit Account 11-0600. A duplicate of this paper is enclosed.

A petition for a () month extension of time and Deposit Account authorization to cover the extension fee are enclosed.

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on April 25, 2002

John J. Kelly Jr.
John J. Kelly, Jr.
Reg. No. 29,182

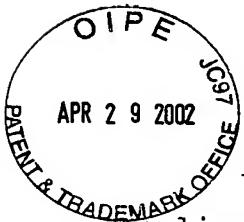
Respectfully submitted,
KENYON & KENYON

By: *John J. Kelly Jr.*
John J. Kelly, Jr.
Reg. No. 29,182

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231, on April 25, 2002.

John J. Kelly Reg. No.: 29,182

John J. Kelly Jr.



#5 filed Rec'd and filed 3-8-02
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Art Unit : 1731
Docket No.: 11287

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: J. SUGAWARA et al.

Serial No.: 10/019,752

Filed : December 27, 2001

For : BLACK CERAMIC SINTER WITH LOW THERMAL EXPANSION AND HIGH SPECIFIC RIGIDITY AND PROCESS FOR PRODUCING THE SAME

Assistant Commissioner for Patents
Washington, D.C. 20231

SECOND PRELIMINARY AMENDMENT

Sir:

Please amend the specification of the above-identified patent application as follows.

Please replace the paragraph appearing at page 5, lines 13-25 with the following new paragraph.

The silicon carbide sintered body has been commercially available as a black ceramic substance. JP-A-08-310,860 discloses a black zirconia ceramic sintered body, JP-A-04-50,161 a method for the production of a high rigidity black alumina sintered body, and JP-A-06-172,034 a black silicon nitride sintered body, respectively. Though these sintered bodies are black, their thermal expansion coefficients at room temperature are $2.3 \times 10^{-6}/^{\circ}\text{C}$

B / in the sintered body of silicon carbide, $7 \times 10^{-6}/^{\circ}\text{C}$ in that of zirconia, $5.3 \times 10^{-6}/^{\circ}\text{C}$ in that of alumina, and $1.3 \times 10^{-6}/^{\circ}\text{C}$ in that of silicon nitride. Thus, these sintered bodies are incapable of realizing a low thermal expansion coefficient aimed at this invention.

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